Release notes for ENDF/B Development n-052_Te_125 evaluation

April 26, 2017

- **checkr** Warnings:

  1. A previous error halted parsing of the current section
     MAT=5240, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT=5240, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      267 TO     330
     ```

- **checkr** Errors:

  1. A variable is outside the allowed ENDF range
     MAT=5240, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT=5240, MF= 1, MT=451
         MOD =     1 OUT OF RANGE     0 -     0          RECORD NUMBER     267
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5240, MF= 2, MT=151 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5240, MF= 2, MT=151
         SECTION  2/151 NOT IN DIRECTORY               RECORD NUMBER     332
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5240, MF= 3, MT= 1 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT=  1
         SECTION  3/  1 NOT IN DIRECTORY               RECORD NUMBER     751
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5240, MF= 3, MT= 2 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT=  2
         SECTION  3/  2 NOT IN DIRECTORY               RECORD NUMBER     783
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5240, MF= 3, MT= 4 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT=  4
         SECTION  3/  4 NOT IN DIRECTORY               RECORD NUMBER     812
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5240, MF= 3, MT= 16 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 16
         SECTION  3/ 16 NOT IN DIRECTORY               RECORD NUMBER     832
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5240, MF= 3, MT= 17 (0): Directory (b)

1

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 17
        SECTION  3/ 17 NOT IN DIRECTORY                 RECORD NUMBER    844
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=5240, MF= 3, MT= 22 (0): Directory (b)$

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 22
        SECTION  3/ 22 NOT IN DIRECTORY                 RECORD NUMBER    850
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=5240, MF= 3, MT= 28 (0): Directory (b)$

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 28
        SECTION  3/ 28 NOT IN DIRECTORY                 RECORD NUMBER    864
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=5240, MF= 3, MT= 32 (0): Directory (b)$

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 32
        SECTION  3/ 32 NOT IN DIRECTORY                 RECORD NUMBER    874
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=5240, MF= 3, MT= 51 (0): Directory (b)$

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 51
        SECTION  3/ 51 NOT IN DIRECTORY                 RECORD NUMBER    882
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=5240, MF= 3, MT= 52 (0): Directory (b)$

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 52
        SECTION  3/ 52 NOT IN DIRECTORY                 RECORD NUMBER    902
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=5240, MF= 3, MT= 53 (0): Directory (b)$

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 53
        SECTION  3/ 53 NOT IN DIRECTORY                 RECORD NUMBER    921
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=5240, MF= 3, MT= 54 (0): Directory (b)$

```
     ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 54
        SECTION  3/ 54 NOT IN DIRECTORY                 RECORD NUMBER    938
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=5240, MF= 3, MT= 55 (0): Directory (b)$

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 55
    SECTION  3/ 55 NOT IN DIRECTORY              RECORD NUMBER     955
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 56 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 56
    SECTION  3/ 56 NOT IN DIRECTORY              RECORD NUMBER     972
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 57 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 57
    SECTION  3/ 57 NOT IN DIRECTORY              RECORD NUMBER     988
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 58 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 58
    SECTION  3/ 58 NOT IN DIRECTORY              RECORD NUMBER    1004
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 59 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 59
    SECTION  3/ 59 NOT IN DIRECTORY              RECORD NUMBER    1019
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 60 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 60
    SECTION  3/ 60 NOT IN DIRECTORY              RECORD NUMBER    1034
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 61 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 61
    SECTION  3/ 61 NOT IN DIRECTORY              RECORD NUMBER    1048
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 62 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 62
    SECTION  3/ 62 NOT IN DIRECTORY              RECORD NUMBER    1061
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 63
           SECTION  3/ 63 NOT IN DIRECTORY                RECORD NUMBER    1074
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 64
           SECTION  3/ 64 NOT IN DIRECTORY                RECORD NUMBER    1086
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 65
           SECTION  3/ 65 NOT IN DIRECTORY                RECORD NUMBER    1098
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 66
           SECTION  3/ 66 NOT IN DIRECTORY                RECORD NUMBER    1110
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 67
           SECTION  3/ 67 NOT IN DIRECTORY                RECORD NUMBER    1121
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT= 91
           SECTION  3/ 91 NOT IN DIRECTORY                RECORD NUMBER    1132
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT=102 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT=102
           SECTION  3/102 NOT IN DIRECTORY                RECORD NUMBER    1142
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT=103 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT=103
           SECTION  3/103 NOT IN DIRECTORY                RECORD NUMBER    1167
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT=104 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT=104
           SECTION  3/104 NOT IN DIRECTORY                  RECORD NUMBER    1183
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT=105 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT=105
           SECTION  3/105 NOT IN DIRECTORY                  RECORD NUMBER    1195
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 3, MT=107 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 3, MT=107
           SECTION  3/107 NOT IN DIRECTORY                  RECORD NUMBER    1207
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 2 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT=  2
           SECTION  4/  2 NOT IN DIRECTORY                  RECORD NUMBER    1224
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 16
           SECTION  4/ 16 NOT IN DIRECTORY                  RECORD NUMBER    1418
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 17
           SECTION  4/ 17 NOT IN DIRECTORY                  RECORD NUMBER    1429
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 22
           SECTION  4/ 22 NOT IN DIRECTORY                  RECORD NUMBER    1440
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 28
           SECTION  4/ 28 NOT IN DIRECTORY                  RECORD NUMBER    1451
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 32 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 32
         SECTION  4/ 32 NOT IN DIRECTORY                RECORD NUMBER    1462
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 51 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 51
         SECTION  4/ 51 NOT IN DIRECTORY                RECORD NUMBER    1473
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 52 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 52
         SECTION  4/ 52 NOT IN DIRECTORY                RECORD NUMBER    1501
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 53
         SECTION  4/ 53 NOT IN DIRECTORY                RECORD NUMBER    1526
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 54
         SECTION  4/ 54 NOT IN DIRECTORY                RECORD NUMBER    1551
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 55
         SECTION  4/ 55 NOT IN DIRECTORY                RECORD NUMBER    1579
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 56
         SECTION  4/ 56 NOT IN DIRECTORY                RECORD NUMBER    1607
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 57
         SECTION  4/ 57 NOT IN DIRECTORY                RECORD NUMBER    1632
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 58 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 58
      SECTION  4/ 58 NOT IN DIRECTORY                RECORD NUMBER    1660
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 59 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 59
      SECTION  4/ 59 NOT IN DIRECTORY                RECORD NUMBER    1688
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 60 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 60
      SECTION  4/ 60 NOT IN DIRECTORY                RECORD NUMBER    1716
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 61 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 61
      SECTION  4/ 61 NOT IN DIRECTORY                RECORD NUMBER    1743
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 62 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 62
      SECTION  4/ 62 NOT IN DIRECTORY                RECORD NUMBER    1768
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 63 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 63
      SECTION  4/ 63 NOT IN DIRECTORY                RECORD NUMBER    1793
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 64 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 64
      SECTION  4/ 64 NOT IN DIRECTORY                RECORD NUMBER    1816
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 65 (0): Directory (b)

```
   ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 65
      SECTION  4/ 65 NOT IN DIRECTORY                RECORD NUMBER    1839
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 66
           SECTION  4/ 66 NOT IN DIRECTORY                  RECORD NUMBER    1863
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 67
           SECTION  4/ 67 NOT IN DIRECTORY                  RECORD NUMBER    1887
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 4, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 4, MT= 91
           SECTION  4/ 91 NOT IN DIRECTORY                  RECORD NUMBER    1911
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 5, MT= 16 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 5, MT= 16
           SECTION  5/ 16 NOT IN DIRECTORY                  RECORD NUMBER    1936
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 5, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 5, MT= 17
           SECTION  5/ 17 NOT IN DIRECTORY                  RECORD NUMBER    2007
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 5, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 5, MT= 22
           SECTION  5/ 22 NOT IN DIRECTORY                  RECORD NUMBER    2033
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 5, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 5, MT= 28
           SECTION  5/ 28 NOT IN DIRECTORY                  RECORD NUMBER    2237
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 5, MT= 32 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5240, MF= 5, MT= 32
           SECTION  5/ 32 NOT IN DIRECTORY                  RECORD NUMBER    2334
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5240, MF= 5, MT= 91 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=5240, MF= 5, MT= 91
           SECTION  5/ 91 NOT IN DIRECTORY                    RECORD NUMBER    2381
```

- recent Warnings:

  1. Statistical weight of certain L values were incorrect
     0: RRR goof (a)

     ```
     Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
     ================================================================================
     Retrieval Criteria-----------         MAT
     File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
     Reactions with No Background-     Output (Resonance Contribution)
     ... [672 more lines]
     ```

- fudge-4.0 Warnings:

  1. Cross section does not match sum of linked reaction cross sections
     crossSectionSum label 0: total (Error # 0): CS Sum.

     ```
     WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.25%
     ```

  2. Cross section does not match sum of linked reaction cross sections
     crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

     ```
     WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.14%
     ```

- fudge-4.0 Errors:

  1. The spin statistical weights are off, indicating missing channels
     resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

     ```
     WARNING: The spin statical weights for L=1 sums to 2.25, but should sum to 3.0.  You have too few channels for r
     ```

  2. Calculated and tabulated Q values disagree.
     reaction label 19: n[multiplicity:'2'] + Te124 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -6983998.400863647 eV vs -6.5768e6 eV!
     ```

  3. Calculated and tabulated Q values disagree.
     reaction label 20: n[multiplicity:'3'] + Te123 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -16407969.07527161 eV vs -1.60057e7 eV!
     ```

  4. Calculated and tabulated Q values disagree.
     reaction label 21: n + H1 + Sb124 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -9105907.682022095 eV vs -8699230. eV!
     ```

  5. Calculated and tabulated Q values disagree.
     reaction label 22: n + H2 + Sb123 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -13348837.71076965 eV vs -1.28611e7 eV!
     ```

  6. Calculated and tabulated Q values disagree.
     reaction label 23: Te126 + gamma (Error # 0): Q mismatch

9

```
         WARNING: Calculated and tabulated Q-values disagree: 8698664.697647095 eV vs 9118390. eV!
```

7. Calculated and tabulated Q values disagree.
   reaction label 24: n + He4 + Sn121 (Error # 0): Q mismatch

```
         WARNING: Calculated and tabulated Q-values disagree: -2658067.772033691 eV vs -2.2391e6 eV!
```

8. Calculated and tabulated Q values disagree.
   reaction label 25: H1 + Sb125_s (Error # 0): Q mismatch

```
         WARNING: Calculated and tabulated Q-values disagree: -399381.1745758057 eV vs 15462.9 eV!
```

9. Calculated and tabulated Q values disagree.
   reaction label 26: H2 + Sb124_s (Error # 0): Q mismatch

```
         WARNING: Calculated and tabulated Q-values disagree: -6881341.581085205 eV vs -6389110. eV!
```

10. Calculated and tabulated Q values disagree.
    reaction label 27: H3 + Sb123_s (Error # 0): Q mismatch

```
         WARNING: Calculated and tabulated Q-values disagree: -7091604.77015686 eV vs -6675960. eV!
```

11. Calculated and tabulated Q values disagree.
    reaction label 28: He4 + Sn122_s (Error # 0): Q mismatch

```
         WARNING: Calculated and tabulated Q-values disagree: 6155123.187240601 eV vs 6.5812e6 eV!
```

- `njoy2012` Warnings:

  1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

     ```
         ---message from conver---cannot do complete particle production for mt= 16
                              only mf4/mf5 provided
     ```

  2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

     ```
         ---message from conver---cannot do complete particle production for mt= 17
                              only mf4/mf5 provided
     ```

  3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

     ```
         ---message from conver---cannot do complete particle production for mt= 22
                              only mf4/mf5 provided
     ```

10

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

   ```
    ---message from conver---cannot do complete particle production for mt= 28
                             only mf4/mf5 provided
   ```

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

   ```
    ---message from conver---cannot do complete particle production for mt= 32
                             only mf4/mf5 provided
   ```

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

   ```
    ---message from conver---cannot do complete particle production for mt= 91
                             only mf4/mf5 provided
   ```